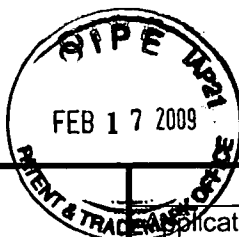


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if known	
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				Group Art Unit	3664
				Examiner Name	Nicholas Kiswanto
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U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code			
		4,709,265		Silverman et al.	11-24-1987	
		4,803,625		Fu et al.	02-07-1989	
		4,977,971		Crane, III et al.	12-18-1990	
		5,084,828		Kaufman et al.	01-28-1992	
		5,130,794	A	Ritchey	07-14-1992	
		5,341,242		Gilboa et al.	08-23-1994	
		5,441,047	A	David et al.	08-15-1995	
		5,442,728	A	Kaufman et al.	08-15-1995	
		5,462,051	A	Oka et al.	10-31-1995	
		5,553,609	A	Chen et al.	09-10-1996	
		5,572,229		Fisher	11-05-1996	
		5,701,904	A	Simmons et al.	12-30-1997	
		5,786,846		Hiroaki	07-28-1998	
		5,836,872	A	Kenet et al.	11-17-1998	
		5,867,653	A	Aras et al.	02-02-1999	
		5,917,958	A	Nunally et al.	06-29-1999	
		5,927,423	A	Wada et al.	07-27-1999	
		6,133,944		Braun et al.	10-17-2000	
		6,170,929		Wilson et al	01-09-2001	
		6,211,903	B1	Bullister	04-03-2001	
		6,219,587		Ahlin et al.	04-19-2001	
		6,232,735	B1	Baba et al.	05-15-2001	
		6,233,504	B1	Das et al.	05-15-2001	
		6,256,556	B1	Zenke	07-03-2001	
		6,289,263	B1	Mukherjee	09-11-2001	
		6,321,137	B1	De Smet	11-20-2001	
		6,325,756	B1	Webb et al.	12-04-2001	
		6,330,493	B1	Takahashi et al.	12-11-2001	
		6,430,475	B2	Okamoto et al.	08-06-2002	
		6,466,844	B1	Ikeda et al.	10-15-2002	
		6,507,773	B2	Parker et al.	01-14-2003	
		6,532,404	B2	Colens, Andre	03-11-2003	
		6,535,182	B2	Stanton	03-18-2003	
		6,540,039	B1	Yu et al.	04-01-2003	
		6,543,899	B2	Covannon et al.	04-08-2003	

Examiner: _____ Date Considered: _____

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Sheet	2	of	7	Attorney Docket Number	157438-0006(P004)

		6,604,019	B2	Ahlin et al.	08-05-2003	
		6,604,021	B2	Imai et al.	08-05-2003	
		6,646,677	B2	Noro et al.	11-11-2003	
		6,684,129	B2	Salisbury et al.	01-27-2004	
		6,691,000	B2	Nagai et al.	02-10-2004	
		6,728,599	B2	Wang et al.	04-27-2004	
		6,781,606	B2	Jouppi	08-24-2004	
		6,784,916	B2	Smith	08-31-2004	
		6,785,589	B2	Eggenberger et al.	08-31-2004	
		6,799,088	B2	Wang et al.	09-28-2004	
		6,836,703	B2	Wang et al.	12-28-2004	
		6,840,904	B2	Goldberg	01-11-2005	
		6,845,297	B2	Allard, James R.	01-18-2005	
		6,852,107	B2	Wang et al.	02-08-2005	
		6,871,117	B2	Wang et al.	03-22-2005	
		6,879,879	B2	Jouppi et al.	04-12-2005	
		6,892,112	B2	Wang et al.	05-10-2005	
		6,895,305	B2	Lathan et al.	05-17-2005	
		6,914,622	B1	Smith et al.	07-05-2005	
		6,925,357	B2	Wang et al.	08-02-2005	
		6,995,664	B1	Darling, Jeffrey	02-07-2006	
		7,115,102	B2	Abbruscato	10-03-2006	
		7,123,285	B2	Smith et al.	10-17-2006	
		7,129,970	B2	James et al.	10-31-2006	
		7,142,945	B2	Wang et al.	11-28-2006	
		7,142,947	B2	Wang et al.	11-28-2006	
		7,151,982	B2	Liff et al.	12-19-2006	
		7,154,526	B2	Foote et al.	12-26-2006	
		7,155,306	B2	Haitin et al.	12-26-2006	
		7,156,809	B1	Quy	01-02-2007	
		7,158,859	B2	Wang et al.	01-02-2007	
		7,158,860	B2	Wang et al.	01-02-2007	
		7,161,322	B2	Wang et al.	01-19-2007	
		7,164,969	B2	Wang et al.	01-16-2007	
		7,174,238	B1	Zweig, Stephen Eliot	02-06-2007	
		7,184,559	B2	Jouppi	02-27-2007	
		7,188,000	B2	Chiappetta et al.	03-06-2007	
		7,256,708		Rosenfeld	08-14-2007	
		7,262,573	B2	Wang et al.	08-28-2007	
		US2001/0010053	A1	Ben-Shachar et al.	07-26-2001	

Examiner: _____ Date Considered: _____

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		US2002/0104094	A1	Alexander et al.	08-01-2002	
		US2002/0143923	A1	Alexander, Bruce	10-03-2002	
		US2002/0177925	A1	Onishi et al.	11-28-2002	
		US2003/0144579	A1	Buss	07-31-2003	
		US2003/0048481	A1	Kobayashi	03-13-2003	
		US2003/0060808	A1	Wilk	03-27-2003	
		US2004/0068657	A1	Alexander et al.	04-08-2004	
		US2004/0088077	A1	Jouppi et al.	05-06-2004	
		US2004/0093409	A1	Thompson et al.	05-13-2004	
		US2004/0138547	A1	Wang et al.	07-15-2004	
		US2004/0162637	A1	Wang et al.	08-19-2004	
		US2004/019406	A1	Wang et al.	01-29-2004	
		US2005/0024485	A1	Castles et al.	02-03-2005	
		US2005/0027794	A1	Decker	02-03-2005	
		US2005/0028221	A1	Liu et al.	02-03-2005	
		US2005/0065659	A1	Tanaka et al.	03-24-2005	
		US2005/0110867	A1	Schultz	05-26-2005	

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office	Number	Kind Code			
		JP	08-084328	A	Hiraiwa et al	03-261996	
		JP	2000-235423	A	Ohashi et al.	08-03-2000	
		JP	2000-032319	A	Sato, Mamoru	01-28-2000	

Examiner: _____ Date Considered: _____

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		AL-KASSAB, "A Review of Telemedicine", Journal of Telemedicine and Telecare, 1999, Vol. 5, Supplement 1
		F. ANDO et al., "A Multimedia Self-service Terminal with Conferencing Functions", 1995, IEEE, pp. 357-362
		BAR-COHEN et al., "Virtual reality robotic telesurgery simulations using MEMICA haptic system, March 5, 2001, Internet, pp. 1-7
		BAUER, John et al., "Remote telesurgical mentoring: feasibility and efficacy", 2000, IEEE, pp. 1-9
		BISCHOFF, "Design Concept and Realization of the Humanoid Service Robot HERMES", Field and Service Robotics, Springer, London, 1998, pp. 485-492
		BLACKWELL, Gerry, "Video: A Wireless LAN Killer App?", 2002, Internet pp. 1-3
		BROOKS, Rodney, Abstracts from Flesh & Machines, How Robots Will Change Us, "Remote Presence", p. 131-147, February 2002
		CHEETHAM, Anastasia et al., "Interface Development for a Child's Video Conferencing Robot", 2000, pp. 1-4
		CLEARY et al., "State of the art in surgical robotics: Clinical applications and technology challenges", February 24, 2002 Internet, pp. 1-26
		CNN, "Floating 'droids' to roam space corridors of the future", Jan.12, 2000, Internet, pp 1-4
		CROWLEY, "Hello to Our Future", AARP Bulletin, January 2000 http://www.cs.cmu.edu/~nursebot/web/press/aarp_99_14/millennium.html
		DALTON, "Techniques for Web Telerobotics", PhD thesis, University of Western Australia, 2001, http://telerobot.mech.uwa.edu.au/information.html , http://catalogue.library.uwa.edu.au/search
		DISCOVERY CHANNEL CANADA, "Inventing the Future: 2000 Years of Discovery", January 2, 2000 (Video/Transcript)
		ELHAJJ et al., "Supermedia in Internet-based telerobotic operations", 2001, Internet, pp. 1-14
		ELHAJJ et al., "Synchronization and Control of Supermedia Transmission Via the Internet", Proceedings of 2001 International Symposium on Intelligent Multimedia, Video and Speech Processing, May 2-4, 2001, Hong Kong
		FELS, "Developing a Video-Mediated Communication System for Hospitalized Children", Telemedicine Journal, Vol. 5, No. 2, 1999
		FETTERMAN, "Videoconferencing over the Internet, 2001, Internet, pp 1-8
		FIORINI, "Health Care Robotics: A Progress Report, IEEE International Conference on Robotics and Automation", 1997

Examiner: _____ Date Considered: _____

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Sheet	5	of	7	Attorney Docket Number	157438-0006(P004)

		GHIASI, "A Generic Web-based Teleoperations Architecture: Details and Experience", SPIE Conference on Telemanipulator and Telepresence Technologies VI, September 1999
		GOLDBERG et al., "Collaborative Teleoperation via the Internet", IEEE International Conference on Robotics and Automation, April 2000, San Francisco, California
		GOLDBERG, "Desktop Teloperation via the World Wide Web, Proceedings of the IEEE International Conference on Robotics and Automation", 1995, http://citeseer.ist.psu.edu/cache/papers/cs/5/ftp.zSzzSzusc.eduSzpubzSziriszSzraiders.pdf/gol
		GOLDBERG, "More Online Robots, Robots that Manipulate", Internet, Updated August 2001 http://ford.ieor.berkeley.edu/ir/robots_a2.html ,
		GUMP, Michael D., "Robot Technology Improves VA Pharmacies", 2001, Internet, pp. 1-3
		HANDLEY, "RFC 2327 – SDP: Session Description Protocol", April 1998 http://www.faqs.org/rfcs/rfc2327.html
		HANEBECK, "ROMAN: a mobile Robotic Assistant for Indoor Service Applications", Proceedings of the 1997 IEEE/RSJ International Conference on Intelligent Robots and Systems, 1997
		HOLMBERG, "Development of a Holonomic Mobile Robot for Mobile Manipulation Tasks", International Conference on Field and Service Robotics, Pittsburgh, PA, Aug. 1999,
		HOUSE RESEARCH ORGANIZATION, "Telemedicine in Texas: Public Policy Concerns, may 5, 2000, http://www.hro.house.state.tx.us/focus/telemed.pdf
		ISHIGURO, "Integrating a Perceptual Information Infrastructure with Robotic Avatars: A Framework for Tele-Existence" Proceeding of IEEE Conference on Intelligent Robots and Systems, http://www.ai.soc.i.kyoto-u.ac.jp/services/publications/99/99conf/07.pdf
		ISHIHARA, Ken et al., "Intelligent Microrobot DDS (Drug Delivery System) Measured and Controlled by Ultrasonics", 11/3-5/1991, IEEE/RSJ, pp 1145-1150, vol. 2
		ITU, "ITU-T H.323 Packet-based multimedia communications", ITU, February 1998, http://www.itu.int/rec/T-REC-H.323-199802-S/en
		IVANOVA, Natali, "Master's thesis: Internet Based Interface for Control of a Mobile Robot", Department of Numerical Analysis and Computer Science
		JENKINS, "Telehealth Advancing Nursing Practice", Nursing Outlook, March/April 2001, Vol. 49, No. 2
		JOHANSON, "Supporting video-mediated communication over the Internet, Chalmers University of Technology, Dept of Computer Engineering, Gothenburg, Sweden, 2003
		JOUPPI, Norman P., "First Steps Towards Mutually-Immersive Mobile Telepresence", CSCW '02, November 16-20, 2002, New Orleans LA
		KELLER et al., "Raven Interface Project", Fall 2001 http://upclose.lrdc.pitt.edu/people/louw_assets/Raven_Slides.pps
		KHATIB, "Robots in Human Environments", Proc. International Conference on Control, Automation, Robotics, and Vision", ICRACV2000, December 2000, Singapore, pp. 454-457
		LANE, "Automated Aides", Newsday, October 17, 2000, http://www.cs.cum.edu/-nursebot/web/press/nd4380.htm
		LINEBARGER, John M. et al., "Concurrency Control Mechanisms for Closely Coupled Collaboration in Multithreaded Virtual Environments", Presence, Special Issue on Advances in Collaborative VEs (2004)

Examiner: _____ Date Considered: _____

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Sheet	6	of	7	Attorney Docket Number	157438-0006(P004)

	LONG, "HelpMate Robotics, Inc. (Formerly Transitions Research Corporation) Robot Navigation Technology", NIST SPECIAL PUBLICATION 950-1, March 1999, http://www.atp.nist.gov/eao/sp950-1/helpmate.htm
	LUNA, Nancy, "Robot a new face on geriatric care", OC Register, 8-6-2003
	MAIR, "Telepresence – The Technology And Its Economic and Social Implications, IEEE Technology and Society, 1997
	MARTIN, Anya, "Days Ahead", Assisted Living Today, Vol. 9, Nov/Dec 2002, pp. 19-22
	MENG, "E-Service Robot in Home Healthcare", Proceedings of the 2000", IEEE/RSJ, International Conference on Intelligent Robots and Systems, 2000
	MICHAUD, Introducing 'Nursebot', The Boston Globe, 9/11/2001, pp 1-5, http://www.cs.cmu.edu/nursebot/web/press/globe_3_01/index.html
	MOBILE ROBOTICS RESEARCH GROUP, "Mobile Robotics Research Group", 2000 Internet, pp. 1-2, Edinburgh
	MONTEMERLO, "Telepresence: Experiments in Next Generation Internet", CMU Robotics Institute, 10/20/1998, http://www.ri.cmu.edu/creative/archives.htm (Video/Transcript)
	MURPHY, "Introduction to AI Robotics", 2000
	NAKAJIMA et al., "A Multimedia Teleteaching System using an Electronic Whiteboard for Two-Way Communication of Motion Videos and Chalkboards", 1993, IEEE, pp. 436-441
	"National Energy Research Scientific Computing Center, Berkeley Lab's RAGE Telepresence Robot Captures R&D100 Award", July 2, 2002, http://www.nersc.gov/news/newsroom/RAGE070202.php
	Nomadic Technologies, Inc., "Nomad XR4000 Hardware Manual", March 1999
	OGATA et al., "Development of Emotional Communication Robot: WAMOEB-2r – Experimental evaluation...", 2000 IEEE, pp. 175-180
	OH, "Autonomous Battery Recharging for Indoor Mobile Robots", Proceedings of Australian Conference on Robotics and Automation, 2000, http://users.rsise.anu.edu.au/rsrl/rsrl_papers/ACRA2000/Auto_Recharge_Paper.pdf
	OJHA, Anad, "An application of Virtual Reality in Rehabilitation", Jan. 1994, IEEE, pp. 4-6
	PAULOS, "PRoP: Personal Roving Presence", ACM:CHI Proceedings of CHI '98, http://www.prop.org/papers/chi98.pdf
	PAULOS, "Video of PRoP 2 at Richmond Field Station, www.prop.org, May 2001, Printout of Home Page of Website and two-page Transcript of the audio portion of said PRoP Video
	SANDT, Frederic et al., "Perceptions for a Transport Robot in Public Environments", 1997, IROS '97
	SCHAEFFER, "Care-O-bot: A System for Assisting Elderly or Disabled Persons in Home Environments", Proceedings of AAATE-99, 1999, http://morpha.de/download/publications/IPA_Systems_For_AssistingElderly_or_DisabledPersons_AAATE1999.pdf
	SCHULTZ, "Web Interfaces for Mobile Robots in Public Places", Robotics & Automation magazine, IEEE, Volume 7, Issue 1, March 2000
	SHIMOOGA et al., "Touch and force reflection for telepresence surgery, 1994, IEEE, pp. 1049-1050

Examiner: _____ Date Considered: _____

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Sheet	7	of	7	Attorney Docket Number	157438-0006(P004)

		SIEGWART, "Interacting Mobile Robots on the Web", Proceedings of the 1999 IEEE International Conference on Robotics and Automation, May 1999,
		SIMMONS, "Xavier: An Autonomous Mobile Robot on the Web", IEE robotics and Automation Magazine, 1999, pp. 43-48
		SPAWAR SYSTEMS CENTER, "Robart", 1998, San Diego, CA, http://web.archive.org/web/*http://www.nosc.mil/robots/land/robart/robart.html http://web.archive.org/web/19981202205636/http://www.nosc.mil/robots/land/robart/robart.html
		SUPLEE, "Mastering the Robot", The Washington Post, p. A01, 9/17/2000 http://www.cs.cmu.edu-nursebot/web/press/wash/index.html
		WEISS et al., Telework and video-mediated communication: Importance of real-time, interactive communication for workers with disabilities", pp. 1-4, California State University Northridge, http://www.csun.edu/cod/conf/1999/proceedings/session0238.html
		WEST et al., "Design of Ball Wheel Mechanisms for Omnidirectional Vehicles with Full Mobility and Invariant Kinematics", Journal of Mechanical Design, Volume 119, pp. 153-161, June 1997
		YAMASAKI et al., Applying Personal Robots and Active Interface to Video Conference Systems, 1995, Internet, pp 243-248
		YONG et al., "Robot task execution with telepresence using virtual reality technology", 1998, Internet, pp. 1-9
		ZIPPERER, Lorri, "Robotic dispensing system", 1999, Internet, pp. 1-2

Examiner: /Nicholas Kiswanto/ Date Considered: 05/04/2009

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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